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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/753,390	01/09/2004	Kia Silverbrook	DAM03US	6102
24011	7590 08/23/2006		EXAMINER	
	OOK RESEARCH P	NGUYEN, LAMSON D		
393 DARLIN BALMAIN,			ART UNIT	PAPER NUMBER
AUSTRALÍA			2861	

DATE MAILED: 08/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/753,390	SILVERBROOK, KIA			
		Examiner	Art Unit			
		Lamson D. Nguyen	2861			
Period fo	The MAILING DATE of this communication apports	ears on the cover sheet with the c	correspondence address -			
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)🛛	Responsive to communication(s) filed on Amer	ndment dated 06/08/06.				
′=	This action is FINAL. 2b) ☐ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims					
5)□ 6)⊠ 7)⊠	Claim(s) 1-7,9-13 and 15-19 is/are pending in the same claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-7,9-10 is/are rejected. Claim(s) 11-13 and 15-19 is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicat	ion Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example 1.	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority (under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)					
Paper No(s)/Mail Date 6) Other:						

Art Unit: 2861

DETAILED ACTION

Page 2

Double Patenting

A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

Claim 1 is provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claim 25 of copending Application No. 10/542,454. This is a provisional double patenting rejection since the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 7, and 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Speakman (6,503,831) in view of Gothait.

Application/Control Number: 10/753,390

Art Unit: 2861

Speakman teaches a three dimensional creation system comprising:

Claims 1, 2:

• a plurality of printheads, the system printing at least part of each layers

simultaneously (figure 19 teaches two printheads 1200 and 1206 that print

Page 3

layers simultaneously)

wherein the printheads are configured to enable printing of at least two

different materials in at least one layer (figure 19 teaches a combined layer of

particulates 1202 and organic binder material 1208)

Claim 3:

at least one first printhead for printing a first material and at least one second

printhead for printing a second material (figure 19 teaches printhead 1206

depositing particulates 1202 and printhead 1200 depositing organic binder

material 1208)

Claim 4:

including at least one printhead that can print at least two different materials

(figure 19 teaches two printheads 1200 and 1206 that print layers

simultaneously)

Claim 7:

the system includes a plurality of printheads (figures 1 and 19)

Art Unit: 2861

Claim 9:

wherein the printheads are configured such that at least one of the layers may be printed with a first set of materials and at least one other of the layers may be printed with a second set of materials, and wherein the first and second sets are not the same (figure 19 teaches printhead 1206 depositing particulates 1202 and printhead 1200 depositing organic binder material 1208)

<u>Claim 10:</u>

the system is configured to enable at least one first printhead that is initially configured to print at least part of a first layer to be dynamically reconfigured to print at least part of a second layer (figure 19 teaches printhead 1206 deposits particulates 1202 first to create the first layer while ejection of organic binder material 1208 by printhead 1200)

However, Speakman does not teach a first printhead is actively maintained at a first temperature and a second printhead is maintained at a second temperature.

It is well-known in the art to utilize a printing system having at least two printheads, wherein each printhead is maintained at a different temperature, as taught by Gothait in column 5, lines 30-34 that "at least two printing heads, wherein each printing head dispenses interface material having a different hardness", which suggests

Art Unit: 2861

that each printing head is maintains a different temperature corresponding to different hardness.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Speakman to incorporate the teaching of printing heads dispensing materials of different hardness, thus suggesting different temperatures, for the purpose of creating different modulus of elasticity (column 5, lines 35-39).

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Speakman in view of Gothait.

Speakman in view of Gothait teaches a system that prints simultaneous layers to fabricate a three-dimensional object, but does not teach 100 layers being simultaneously printed.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Speakman to include 100 layers since it has been held that discovering an optimum value of a result effective variable involve only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Speakman in view of Gothait as applied to claim 1 above, and further in view of Hermanson (5,581,284).

Speakman in view of Gothait teaches all claimed features of the invention except for full-width printheads.

It is well-known that a serial or non-fullwidth printhead printing system can be incorporated to utilize fullwidth printheads as taught by Hermanson (column 6, lines 45-48).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Speakman in view of Gothait to incorporate the teaching of pagewidth printheads taught by Hermanson for the purpose of increasing printing throughput.

Allowable Subject Matter

Claims 11-13, 15-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lamson D. Nguyen whose telephone number is 571-272-2259. The examiner can normally be reached on 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vip Patel can be reached on 571-272-2458. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/753,390

Art Unit: 2861

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TAMSON NGUYEN PRIMARY EXAMINER

Page 7